

# Modified Lévy C curve

The total length after n iterations:  
 $L(n) = A(n) + B(n) * \sqrt{2}$

n	$L(n) = A(n) + B(n) * \sqrt{2}$	$A(n) = A251732(n)$	$B(n) = A251733(n)$
0	1	1	0
1	1.242640...	-3	3
2	1.544155...	27	-18
3	1.918830...	-189	135
4	2.384417...	1377	-972
5	2.962974...	-9963	7047
6	3.681912...	72171	-51030
7	4.575293...	-522693	369603
8	5.685446...	3785697	-2676888
9	7.064966...	-27418419	19387755
10	8.779215...	198581787	-140418522
...	...	...	...

(a) Magnification factor :	$1 + \sqrt{2}$ 2.414213562
(b) Self similar piece :	3
Fractal dimension:	$\log(b)/\log(a)$
(Hausdorff dimension)	1.24647743573

